

ABSTRACT OF THE DISCLOSURE

- A circuit for a pixel site in an imaging array includes a light-detecting element to convert incident light to a photocurrent and a reset transistor, operatively connected to the light-detecting element, to reset a voltage associated with the light-detecting element.
- 5 The reset transistor hard resets the voltage associated with the light-detecting element and soft resets the voltage associated with the light-detecting element after the generation of the hard reset of the voltage associated with the light-detecting element. A pixel voltage of a column or row line is also measured by hard resetting the column or row line voltage to a first predetermined voltage; soft resetting the column or row line voltage to a first pixel voltage; hard resetting the column or row line voltage to a second predetermined voltage; soft resetting the column or row line voltage to a second pixel voltage; and determining a difference between the first and second pixel voltages, the difference being 10 the measured pixel voltage.